What is claimed is:

- 1. A method of monitoring a wireless network, the method comprising the steps of:
 - (a) receiving a data unit from a wireless node;
 - (b) if a bandwidth constraint is satisfied, buffering the received data unit; and
 - (c) transmitting the received or buffered data unit to a monitoring processor.
- 2. The method of claim 1, and further comprising the steps of receiving the bandwidth constraint.
- 3. The method of claim 2, wherein the bandwidth constraint is received from a local data store, a wired network node, a wireless network node, an access point or a sensor.
- 4. The method of claim 2, and further comprising the step of requesting the bandwidth constraint.
- 5. The method of claim 1, and further comprising the step of determining the bandwidth constraint.
- 6. The method of claim 5, wherein the step of determining the bandwidth constraint is based at least in part upon local data, data received from a wired network node, data received from a wireless network node, data received from an access point, data received from a sensor or combinations thereof.
- 7. The method of claim 1, and further comprising the step of downsampling when the bandwidth constraint is satisfied.
- 8. The method of claim 7, wherein the step of downsampling occurs when a local storage constraint is satisfied.
- 9. The method of claim 8, wherein the step of downsampling only occurs when the local storage constraint is satisfied.
- 10. The method of claim 7, wherein the step of downsampling comprises one or more steps selected from the group consisting of:
 - (i) discarding the received data unit if it is redundant with a previously buffered data unit;

- (ii) aggregating the received data unit with a previously buffered data unit;
- (iii) discarding the received data unit if it comprises network control data;
- (iv) discarding the received data unit if it is associated with a device that has already been observed more frequently than other devices; and
- (v) discarding the received data unit if the wireless node is determined to be a low threat node.
- 11. The method of claim 1, and further comprising the step of repeating steps (a) through (c) for a plurality of wireless nodes.
- 12. The method of claim 11, and further comprising the step of selecting the wireless node from the plurality for a given repetition.
- 13. The method of claim 12, wherein the selecting step is based upon random selection.
- 14. The method of claim 12, wherein the selecting step is based upon a deterministic selection.
- 15. The method of claim 14, wherein the deterministic selection is a sequential traversal of the plurality, a selection based upon amount of buffered data for each wireless node in the plurality, a selection based upon a threat level for each wireless node in the plurality or combinations thereof.
- 16. The method of claim 11, wherein the transmitting step occurs at a rate determined based upon the bandwidth constraint and current bandwidth useage.
- 17. The method of claim 1, and further comprising the step of repeating steps (a) through (c) for a plurality of received data units from the wireless node.
- 18. The method of claim 17, wherein the transmitting step occurs at a rate determined based upon the bandwidth constraint and current bandwidth useage.
- 19. The method of claim 1, wherein the transmitting step occurs at a time based upon whether the bandwidth constraint is satisfied.

- 20. The method of claim 19, wherein the transmitting step comprises immediately transmitting the received data unit if the bandwidth constraint is not satisfied.
- 21. The method of claim 19, wherein the transmitting step further comprises transmitting the buffered data unit at a point in time when the bandwidth constraint is not satisfied.
- 22. One or more computer readible media storing instruction that upon execution by a system processor cause the system processor to monitor a wireless network by performing the methods of any of claims 1 through 21.
- 23. A system of monitoring a wireless network, the system comprising:
 - (a) a system data store (SDS) comprising capable of storing wireless data transmitted by a wireless node and configuration information at least comprising a bandwidth constraints;
 - (b) a wireless receiver capable of receiving one or more data units from a wireless node;
 - (c) a communication interface allowing communication with a monitoring processor; and
 - (d) a system processor in communication with the SDS, the wireless receiver and the communication interface, wherein the system processor comprises one or more processing elements programmed or adapted to:
 - receive a data unit from the wireless receiver in response to receipt of the data unit by the wireless receiver from a wireless node;
 - (ii) buffer the received data unit in the SDS if a bandwidth constraint is satisfied;
 - (iii) immediately transmit the received data unit to the monitoring process via the communication interface if the bandwidth constraint is not satisfied;
 - (iv) repeat steps (i) through (iii) for a plurality of received data units;
 - (v) discard the received data unit if the bandwidth constraint is satisfied, if a local storage constraint has been satisfied and if the

received data unit is redundant with a previously buffered data unit, comprises network control data, is associated with a device that has already been observed more frequently than other devices or originates from a low threat wireless node;

- (vi) aggregate the received data unit with a previously buffered data unit if the bandwidth constraint is satisfied and if the received data unit is compatible with the previously buffered data unit; and
- (vii) transmit a selected buffered data unit to the to the monitoring process via the communication interface at a point in time after receipt based upon the bandwidth constraint and bandwidth useage.
- 24. A system of monitoring a wireless network, the system comprising:
 - (a) receiving means for receiving a data unit from a wireless node;
 - (b) buffer means for accepting for buffering a received data unit from the receiving means if a bandwidth constraint is satisfied, aggregating the accepted data unit with a previously buffered data unit if the accepted data unit is compatible with the previously buffered data unit, discarding the accepted data unit if a storage constraint is satisfied and if the accepted data unit is redundant with a previously buffered data unit, comprises network control data, is associated with a device that has already been observed more frequently than other devices or originates from a low threat wireless node; and
 - (c) output means for immediately transmitting a received data unit to a monitoring processor if the bandwidth constraint is not satisfied and for transmitting a buffered data unit to the monitoring processor at a point in time after receipt based upon the bandwidth constraint and bandwidth useage.